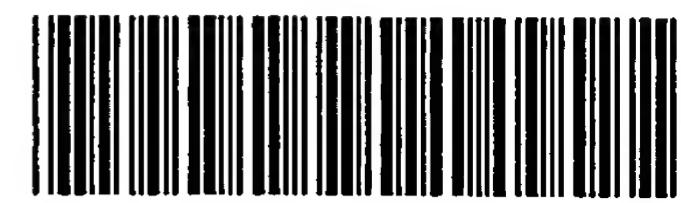


## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 10/074,694  
Source: IFN16  
Date Processed by STIC: 07-05-2005

***ENTERED***



IFW16

**RAW SEQUENCE LISTING**  
**PATENT APPLICATION: US/10/074,694**

**DATE: 07/05/2005**  
**TIME: 14:27:54**

**Input Set : A:\10276-017002.TXT**  
**Output Set: N:\CRF4\07052005\J074694.raw**

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4 <110> APPLICANT: Kahn, C. Ronald
5      Zhu, Jianhua
7 <120> TITLE OF INVENTION: MODULATING THE RAD-NM23 INTERACTION
10 <130> FILE REFERENCE: 10276-017002
12 <140> CURRENT APPLICATION NUMBER: US 10/074,694
13 <141> CURRENT FILING DATE: 2002-02-12
15 <150> PRIOR APPLICATION NUMBER: US 09/053,967
16 <151> PRIOR FILING DATE: 1998-04-02
18 <160> NUMBER OF SEQ ID NOS: 5
20 <170> SOFTWARE: FastSEQ for Windows Version 4.0
22 <210> SEQ ID NO: 1
23 <211> LENGTH: 308
24 <212> TYPE: PRT
25 <213> ORGANISM: Homo sapiens
27 <400> SEQUENCE: 1
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29   1           5           10          15
30 Gly Gln Glu Arg Glu Arg Arg Arg Gly Ser Thr Pro Trp Gly Pro Ala
31   20          25          30
32 Pro Pro Leu His Arg Arg Ser Met Pro Val Asp Glu Arg Asp Leu Gln
33   35          40          45
34 Ala Ala Leu Thr Pro Gly Ala Leu Thr Ala Ala Ala Ala Gly Thr Gly
35   50          55          60
36 Thr Gln Gly Pro Arg Leu Asp Trp Pro Glu Asp Ser Glu Asp Ser Leu
37   65          70          75          80
38 Ser Ser Gly Gly Ser Asp Ser Asp Glu Ser Val Tyr Lys Val Leu Leu
39   85          90          95
40 Leu Gly Ala Pro Gly Val Gly Lys Ser Ala Leu Ala Arg Ile Phe Gly
41   100         105         110
42 Gly Val Glu Asp Gly Pro Glu Ala Glu Ala Ala Gly His Thr Tyr Asp
43   115         120         125
44 Arg Ser Ile Val Val Asp Gly Glu Glu Ala Ser Leu Met Val Tyr Asp
45   130         135         140
46 Ile Trp Glu Gln Asp Gly Gly Arg Trp Leu Pro Gly His Cys Met Ala
47   145         150         155         160
48 Met Gly Asp Ala Tyr Val Ile Val Tyr Ser Val Thr Asp Lys Gly Ser
49   165         170         175
50 Phe Glu Lys Ala Ser Glu Leu Arg Val Gln Leu Arg Arg Ala Arg Gln
51   180         185         190
52 Thr Asp Asp Val Pro Ile Ile Leu Val Gly Asn Lys Ser Asp Leu Val
53   195         200         205
54 Arg Ser Arg Glu Val Ser Val Asp Glu Gly Arg Ala Cys Ala Val Val
55   210         215         220

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**RAW SEQUENCE LISTING**  
PATENT APPLICATION: US/10/074,694

DATE: 07/05/2005  
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Input Set : A:\10276-017002.TXT  
Output Set: N:\CRF4\07052005\J074694.raw

56 Phe Asp Cys Lys Phe Ile Glu Thr Ser Ala Ala Leu His His Asn Val  
 57 225 230 235 240  
 58 Gln Ala Leu Phe Glu Gly Val Val Arg Gln Ile Arg Leu Arg Arg Asp  
 59 245 250 255  
 60 Ser Lys Glu Ala Asn Ala Arg Arg Gln Ala Gly Thr Arg Arg Arg Glu  
 61 260 265 270  
 62 Ser Leu Gly Lys Lys Ala Lys Arg Phe Leu Gly Arg Ile Val Ala Arg  
 63 275 280 285  
 64 Asn Ser Arg Lys Met Ala Phe Arg Ala Lys Ser Lys Ser Cys His Asp  
 65 290 295 300  
 66 Leu Ser Val Leu  
 67 305  
 70 <210> SEQ ID NO: 2  
 71 <211> LENGTH: 664  
 72 <212> TYPE: DNA  
 73 <213> ORGANISM: Mus musculus  
 75 <220> FEATURE:  
 76 <221> NAME/KEY: CDS  
 77 <222> LOCATION: (1)...(498)  
 79 <400> SEQUENCE: 2  
 80 cag tcg cag ccg gcg gta aag cct tgt cat ctg aag ggg acc atg gcc 48  
 81 Gln Ser Gln Pro Ala Val Lys Pro Cys His Leu Lys Gly Thr Met Ala  
 82 1 5 10 15  
 84 aac agt gag cgt acc ttc att gcc atc aag cct gat ggg gtc cag cgg 96  
 85 Asn Ser Glu Arg Thr Phe Ile Ala Ile Lys Pro Asp Gly Val Gln Arg  
 86 20 25 30  
 88 ggg ctg gtg ggc gag atc atc aag cgg ttc gag cag aag ggg ttc cgc 144  
 89 Gly Leu Val Gly Glu Ile Ile Lys Arg Phe Glu Gln Lys Gly Phe Arg  
 90 35 40 45  
 92 ctt gtt ggt ctg aag ttt ctg cag gct tca gag gac ctt ctc aag gag 192  
 93 Leu Val Gly Leu Lys Phe Leu Gln Ala Ser Glu Asp Leu Leu Lys Glu  
 94 50 55 60  
 96 cac tac act gac ctg aag gac cgc ccc ttc ttt act ggc ctg gtg aaa 240  
 97 His Tyr Thr Asp Leu Lys Asp Arg Pro Phe Phe Thr Gly Leu Val Lys  
 98 65 70 75 80  
 100 tac atg cac tca gga cca gtg gtt gct atg gtc tgg gag ggt ctg aat 288  
 101 Tyr Met His Ser Gly Pro Val Val Ala Met Val Trp Glu Gly Leu Asn  
 102 85 90 95  
 104 gtg gtg aag aca ggc cgc gtg atg ctt gga gag acc aac ccc gca gac 336  
 105 Val Val Lys Thr Gly Arg Val Met Leu Gly Glu Thr Asn Pro Ala Asp  
 106 100 105 110  
 108 tct aag cct ggg acc ata cga gga gac ttc tgc att caa gtt ggc agg 384  
 109 Ser Lys Pro Gly Thr Ile Arg Gly Asp Phe Cys Ile Gln Val Gly Arg  
 110 115 120 125  
 112 aac atc att cat ggc agc gat tct gta aag agc gca gag aag gag atc 432  
 113 Asn Ile Ile His Gly Ser Asp Ser Val Lys Ser Ala Glu Lys Glu Ile  
 114 130 135 140  
 116 agc ttg tgg ttt cag cct gag gag ctg gtg gag tac aag agc tgt gcg 480  
 117 Ser Leu Trp Phe Gln Pro Glu Glu Leu Val Glu Tyr Lys Ser Cys Ala

## RAW SEQUENCE LISTING

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DATE: 07/05/2005

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Input Set : A:\10276-017002.TXT  
 Output Set: N:\CRF4\07052005\J074694.raw

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118 145           150           155           160
120 cag aac tgg atc tat gag tgataggacg gtgccggttt tctacctgct      528
121 Gln Asn Trp Ile Tyr Glu
122           165
124 tactcttgtt ctcacaggca ggggaccaggc aacccttagat atttctggaa cttcttgac 588
125 ctggaaggaa cctttggag ccgtgactcc ctgtgcagtg ttacgtgcca ctgttagatt 648
126 aaagtgttta atctgt          664
128 <210> SEQ ID NO: 3
129 <211> LENGTH: 166
130 <212> TYPE: PRT
131 <213> ORGANISM: Mus musculus
133 <400> SEQUENCE: 3
134 Gln Ser Gln Pro Ala Val Lys Pro Cys His Leu Lys Gly Thr Met Ala
135   1           5           10           15
136 Asn Ser Glu Arg Thr Phe Ile Ala Ile Lys Pro Asp Gly Val Gln Arg
137           20          25           30
138 Gly Leu Val Gly Glu Ile Ile Lys Arg Phe Glu Gln Lys Gly Phe Arg
139           35          40           45
140 Leu Val Gly Leu Lys Phe Leu Gln Ala Ser Glu Asp Leu Leu Lys Glu
141           50          55           60
142 His Tyr Thr Asp Leu Lys Asp Arg Pro Phe Phe Thr Gly Leu Val Lys
143   65          70           75           80
144 Tyr Met His Ser Gly Pro Val Val Ala Met Val Trp Glu Gly Leu Asn
145           85          90           95
146 Val Val Lys Thr Gly Arg Val Met Leu Gly Glu Thr Asn Pro Ala Asp
147           100         105          110
148 Ser Lys Pro Gly Thr Ile Arg Gly Asp Phe Cys Ile Gln Val Gly Arg
149           115         120          125
150 Asn Ile Ile His Gly Ser Asp Ser Val Lys Ser Ala Glu Lys Glu Ile
151           130         135          140
152 Ser Leu Trp Phe Gln Pro Glu Glu Leu Val Glu Tyr Lys Ser Cys Ala
153   145         150          155          160
154 Gln Asn Trp Ile Tyr Glu
155           165
158 <210> SEQ ID NO: 4
159 <211> LENGTH: 670
160 <212> TYPE: DNA
161 <213> ORGANISM: Homo sapiens
163 <220> FEATURE:
164 <221> NAME/KEY: CDS
165 <222> LOCATION: (73)...(528)
167 <400> SEQUENCE: 4
168 cggccacgag gcggaatccc ttctgctctc ccagcgacgc gccgcccggcc ggccccctcca 60
169 gcttcccgga cc atg gcc aac ctg gag cgc acc ttc atc gcc atc aag ccg 111
170           Met Ala Asn Leu Glu Arg Thr Phe Ile Ala Ile Lys Pro
171           1           5           10
173 gac ggc gtg cag cgc ggc ctg gtg ggc gag atc atc aag cgc ttc gag 159
174 Asp Gly Val Gln Arg Gly Leu Val Gly Glu Ile Ile Lys Arg Phe Glu
175           15          20           25

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Input Set : A:\10276-017002.TXT

Output Set: N:\CRF4\07052005\J074694.raw

177 cag aag gga ttc cgc ctc gtg gcc atg aag ttc ctc cg<sub>g</sub> gcc tct gaa 207  
 178 Gln Lys Gly Phe Arg Leu Val Ala Met Lys Phe Leu Arg Ala Ser Glu  
 179 30 35 40 45  
 181 gaa cac ctg aag cag cac tac att gac ctg aaa gac cga cca ttc ttc 255  
 182 Glu His Leu Lys Gln His Tyr Ile Asp Leu Lys Asp Arg Pro Phe Phe  
 183 50 55 60  
 185 cct ggg ctg gtg aag tac atg aac tca ggg ccg gtt gtg gcc atg gtc 303  
 186 Pro Gly Leu Val Lys Tyr Met Asn Ser Gly Pro Val Val Ala Met Val  
 187 65 70 75  
 189 tgg gag ggg ctg aac gtg gtg aag aca ggc cga gtg atg ctt ggg gag 351  
 190 Trp Glu Gly Leu Asn Val Val Lys Thr Gly Arg Val Met Leu Gly Glu  
 191 80 85 90  
 193 acc aat cca gca gat tca aag cca ggc acc att cgt ggg gac ttc tgc 399  
 194 Thr Asn Pro Ala Asp Ser Lys Pro Gly Thr Ile Arg Gly Asp Phe Cys  
 195 95 100 105  
 197 att cag gtt ggc agg aac atc att cat ggc agt gat tca gta aaa agt 447  
 198 Ile Gln Val Gly Arg Asn Ile Ile His Gly Ser Asp Ser Val Lys Ser  
 199 110 115 120 125  
 201 gct gaa aaa gaa atc agc cta tgg ttt aag cct gaa gaa ctg gtt gac 495  
 202 Ala Glu Lys Glu Ile Ser Leu Trp Phe Lys Pro Glu Glu Leu Val Asp  
 203 130 135 140  
 205 tac aag tct tgt gct cat gac tgg gtc tat gaa taagaggtag acacaacagc 548  
 206 Tyr Lys Ser Cys Ala His Asp Trp Val Tyr Glu  
 207 145 150  
 209 agtctccttc agcacggcgt ggtgtgtccc tggacacagc tcttcattcc attgacttag 608  
 210 aggcaacagg attgatcatt cttttataga gcatatttc caataaagct ttggaaagcc 668  
 211 gg 670  
 213 <210> SEQ ID NO: 5  
 214 <211> LENGTH: 152  
 215 <212> TYPE: PRT  
 216 <213> ORGANISM: Homo sapiens  
 218 <400> SEQUENCE: 5  
 219 Met Ala Asn Leu Glu Arg Thr Phe Ile Ala Ile Lys Pro Asp Gly Val  
 220 1 5 10 15  
 221 Gln Arg Gly Leu Val Gly Glu Ile Ile Lys Arg Phe Glu Gln Lys Gly  
 222 20 25 30  
 223 Phe Arg Leu Val Ala Met Lys Phe Leu Arg Ala Ser Glu Glu His Leu  
 224 35 40 45  
 225 Lys Gln His Tyr Ile Asp Leu Lys Asp Arg Pro Phe Phe Pro Gly Leu  
 226 50 55 60  
 227 Val Lys Tyr Met Asn Ser Gly Pro Val Val Ala Met Val Trp Glu Gly  
 228 65 70 75 80  
 229 Leu Asn Val Val Lys Thr Gly Arg Val Met Leu Gly Glu Thr Asn Pro  
 230 85 90 95  
 231 Ala Asp Ser Lys Pro Gly Thr Ile Arg Gly Asp Phe Cys Ile Gln Val  
 232 100 105 110  
 233 Gly Arg Asn Ile Ile His Gly Ser Asp Ser Val Lys Ser Ala Glu Lys  
 234 115 120 125  
 235 Glu Ile Ser Leu Trp Phe Lys Pro Glu Glu Leu Val Asp Tyr Lys Ser

RAW SEQUENCE LISTING  
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Input Set : A:\10276-017002.TXT  
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236 130 135 140  
237 Cys Ala His Asp Trp Val Tyr Glu  
238 145 150

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/074,694

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Input Set : A:\10276-017002.TXT

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